**Course Syllabus**

Class**: Computer Programming I**

Text**: Using Visual BASIC** by M. Sprague. Southwestern

Segment 1 (week 1-4): Ch. 1-3

Basics of working in Windows

Hierarchy of computer languages

Intro into TI-Basic

Visual BASIC I.D.E and hierarchy

Variables, expressions, an statements

Projects: Company Name

Freefall p.90

Calculator – at least 5 operations, Clear, Quit

Segment 2 (week 5-8): Ch. 3-4

Data Types

Divisibility, running totals, and loops

IF-THEN statements

For-Next statements

Projects: Cereal p.117

Triangle Inequality (state types) p.124

Prime numbers and factors p.138

Tic-Tac-Toe

Segment 3 (week 9-12): Ch. 5-6

Strings

Saving and retrieving text files

Saving and retrieving binary files

Do While statements

Menus (Pulldown)

Scrollbars

Arrays

Scope of variables (local, static, and global)

Projects: MiniEdit (word processor) p,165

Lists p.186

Two-point Three-point p.196 use mousedown in picturebox with x and y axisto draw line.(textboxes and parameter passing)

Car loan p.219

Amortization table (add monthly interest and principal) p.237

Drawlines (graphics manipulator) p.250